



Liquid Inventory

Sulfuric acid 98% drain cleaner

Nitrocellulose lacquer

Glycerin

Soap making

Hydrogen Peroxide 27%

Aqua Silk

Acetone

Alcohol

Nitric Acid 67%

Nitromethane 100%

Methanol 100%

2

Powder Inventory

Potassium Chlorate

Potassium Nitrate (KNO₃) stump removerPotassium Perchlorate (KClO₄)

Barium Nitrate

Sulfur

shake away

Sodium bicarbonate (baking soda)

Strontium Carbonate & nitrate

Charcoal

Bismuth trioxide

Aluminum powder - black & bright

Magnaluminum 200 mesh

Aluminum chips 40-60 mesh

Magnesium chips 30-50 mesh & Flake 325 mesh

Antimony Trisulfide 200 mesh

copper oxide - black

PVC powder

Dextrin

Ammonium Nitrate

(instant ice packs)

Diatomaceous earth

Sodium Hydroxide - Lye/caustic soda

Hexamine

Ammonium perchlorate

Parlon

Red Gum

Zinc dust

Iron oxide powder

Citric Acid Ethynitrol

Pyro Ponders

Good Flash

50% Potassium Nitrate

30% sulfur

20% Aluminum powder - black

Best Flash

70% potassium perchlorate

30% Aluminum powder - black / or magnesium

Thermite

75% iron oxide powder

25% Alvinquin powder

Black powder

75% Potassium nitrate

15% Charcoal

10% Sulfur

Tonerite

1 ounce
95% Ammonium Nitrate (instant ice packs)

05% Aluminum Powder-black

-sensitize with flash powder & it will go off with a lower velocity round such as .22LR

Primary Detonator

HTD
5000/s

(will denote all HE compounds)

65. 88 cap

very sensitive to friction/shock/fatigue

* Sublimates quickly; store under alcohol

* must load into plastic container, will corrode.

size in glass container for metal

14g Hexamine dissolve into

45, 30% Hydrogen Peroxide

Place in an ice bath

21g Citric acid mixed in slowly

is occasionally for several hours

- Add / dilute with distilled water

- Filter off crystallized product

- Rinse with water (removes acids)

- Rinse with alcohol & dry

Press into detergent cap (allow to dry 2 days)
store under alcohol in cold refrigeration

Det cap assembly (#8 equivalent)

plastic straw —

wrap with adhesive tape

Fail to rain forest

hot glue

5g HMTD
up to 2g

cotton plug

Flash powder

hot glue

cotton plug

fuse or crated

Homemade C-4* Plasticized ANNM version (1 pound)

250ml Flour mix with
 30ml Dark aluminum powder then mix
 45ml Dry Ammonium Nitrate powder
 Add 125ml Nitromethane 40% minimum

Knead thoroughly into a dough
 Pack into PVC pipe $1\frac{1}{2}$ " x 6"
 Cap ends to seal from moisture
 * Very stable / insensitive

Basic ANNM / ANFO

430 grams powder Ammonium Nitrate
 80 milliliters Nitromethane

* by weight SAN : 2 NM

Add 5% Dark Aluminum powder to sensitize
 and increase power

Bullseye Powder ANNM

250ml powder Ammonium Nitrate
 mix 5ml Dark aluminum powder

Set aside Sealed

50ml Nitromethane + 1 TBSP Bullseye powder
 mix thoroughly 30 mins

* Knead mixtures together & mold into
 containers

- VERY POWERFUL

Reloading Data (RiHe)

.223/5.56 55g LOC-FMJ (\$0.25)
 Accurate 2460 - 20g - 2,800fps
 CFE 223 -

.270 Win 110g Hornady FTX (\$0.62)
 IMR 4064 - 46g (1MOA)
 H380 - 44-50g

135g Sierra BTHP (\$0.65)
 H380 - 46-47g

.308/7.62 168g Hornady BTHP (\$0.50)
 IMR 4064 - 42g - (41g 1MOA)

165g Hornady Speer (\$0.45)
 Accurate 2460

150g Hornady Speer (\$0.45)

Cougar Rifle

.15/70 325g Hornady FTX (\$1.00)
 H4198 - 48g - 2,000 fps
 (2.010 short case)

305g Lehigh Controlled Fracture
 H4198 - 46g - 50g (\$1.44)

305g Xirene Penetrator (\$1.44)
 H4198 - 47g - 50g
 Accurat 5744 46g

.44/40 200g Magnum RNFP (cast lead)
 Black Powder FF - 35g (\$0.31)

* Compress powder 1/16" and crimp case
 - very important to ensure BP is compressed
 with no airspace in case

Gunpowder Inventory

CFE 223
 IMR 4064
 Benchmark
 BLC-2
 H380
 LV Revolution
 Accurate 2460
 IMR 4350
 H4198
 FFg Black powder
 Accurat 5744

Primers

207 shotshell
 Winchester LRM
 Winchester SR
 Federal LR

Weapon Inventory / Serial

- PSA - AR15 - .225/5.56 (PA-B MULTI)
Havoc 9" 37mm
#SCB002112
- PSA - AR308 - .308/7.62 (G3-10 MULTI)
Oprey 16x scope
with machine SME
#G308754
- Uberti Mod 66 -.44/40 (CAT 1563)
#76533
- Winchester 62A - .22LR
pump action
#381142
- Western Field - 20 gauge (MSSOCD)
pump action
#G775414
- Beretta 92FS - 9mm luger
#BER038708Z
- Ruger SR22P - .22LR
#365-97727

37 in loading

shell maximum diameter: 1.375"

Plastic shell - 25g FFg black powder
(50 yrd range)

Aluminum shell - 40g FFg black powder
(100 yrd range)

Type	Color
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Hand Grenade - 20g KC104 - Green

Stinger Grenade - 10g KC104 - Tan

Concussion Grenade - 10g KC104 - Gray

Aerial Flare - Green stars - Orange

Air burst fireworks - Various - White
Smoke

209 shotshell primers

- Press fit into plastic shells

- Loctite into aluminum shells

Aluminum powder bushings hold 40g FFg BP
creates a smaller area for powder burn
resulting in a more powerful ignition and
longer distance launch.

37mm land data

Hand Grenade

consists of a 3" long PVC (sch. 20)
 Paper tube .750" I.D. / .830" O.D. X 2 1/4" long
 .177 steel BB's - Qty 250
 3mm cannon fuse 1 1/2" long
 3/4" paper discs
 1 3/8" paper discs or fender washers
 Hi strength hot melt glue

Assemble 20g UC104 Explosive inside PVC
 Surround 250 BB's within PVC

* Sand inside of PVC before hot melt glue *
Stinger Grenade

3" long PVC
 Paper tube .625" I.D. / .685" O.D. X 2" long
 .250 plastic airsoft BB's - Qty 80ish
 3mm cannon fuse 1 1/2" long
 5/8" paper discs
 1 3/8" paper discs
 Hi strength hot melt glue

Assemble 10g UC104 Explosive inside PVC
 Surround plastic BB's within PVC

37mm land data

Concussion Grenade

(Same construction as stinger grenade)



Assemble 10g UC104 Explosive inside PVC
 * Empty PVC

Aerial Flare

Assemble into a 2" long plastic shell
 1 - 30g FFg black powder over primer
 2 - 1 thin layer toilet paper
 3 - 1 3/8" paper disc with fire holes drilled
 4 - 6-8 colored firework stars
 5 - toilet paper wadding
 6 - 1 3/8" paper disc - hot melt glue to seal

Green Stars

50 Barium Nitrate
 32 Magnesium powder
 18 PVC powder
 5 Dextrin

Bleiser Purple Stars

68 Potassium perchlorate
 6 copper oxide
 9 Strontium carbonate
 11 PVC
 5 Dextrin

Firework stars

PETN

Prepare Ice bath

33 ml Nitric acid (67%) + 19 ml sulfuric acid (94-99%)

mix until temperature stabilizes $< 10^{\circ}\text{C}$

slowly stir in Pentaerythritol 10g (98% AR grade powder)

Keep temp below 15°C - If it rises red dump it out

Let sit for 10 mins $< 15^{\circ}\text{C}$

prepare warm water bath 50°C

Raise temp of mixture in bath to 50°C

Let sit for 20 mins at 50°C

Crash mixture into Cold distilled water

- Rinse / Dry / Recrystallize same as ETN

- If it starts to yellow, end process & Filter

ETN

Very high power primary/secondary HE
- VAD 8,000 mps when melt cast 1.73/cu3

Prepare large ice bath

Mix chilled Nitric acid (67%) 12ml
+ chilled Sulfuric acid (98%) 18ml

mix until temp stabilized $< 5^{\circ}\text{C}$

slowly stir in Epithiol 3g - below $< 5^{\circ}\text{C}$ (fine powder)

Remove from ice bath maintain $10^{\circ}\text{C} - 30^{\circ}\text{mins}$.

Crash mixture into cold water slowly

Filter ETN crystals

Rinse with sodium bicarbonate water

Rinse with distilled water

* DRY RAW ETN *

Dissolve crystals into small amount of Acetone,
Crash into turbulent cold water - stirring fast
to create smaller crystals

Filter Recrystallized ETN

* DRY pure ETN

Melt Casting

This creates a dense block of solid ETN
that can be melt or poured into a mold

- Double boil a glass container of water 160°F
submerge/float mold with powder ETN
- use a water tight container that can
withstand water temperature
- Allow to cool slowly

method 2

12g Ammonium Nitrate fill
30ml Sulfuric acid
3g powder Epithiol

ETN thermal detonator BP rolled with fuse



BP Fuse 5g ETN powder rolled with 3 layers
of aluminum foil

* ETN will not detonate with direct contact
to flame/fuse

= 10g Booster

